



Vocabulary		
Word	Picture	Definition
energy		The power from a source. (The source is where it comes from)
vibration		Invisible waves that move quickly
particles		Tiny parts that make up solids, liquids and gases (mediums)
medium		Something that allows sound waves to travel through it
vacuum		A place where there are no particles at all. E.g. space
volume		How loud or quiet a sound is
pitch		How high or low a sound is
frequency		The number of vibrations (or sound wave cycles) per second

How is a sound made?

- When an object **vibrates**, it makes the air around it vibrate. The air **vibrations** enter your ear as **sound waves**.

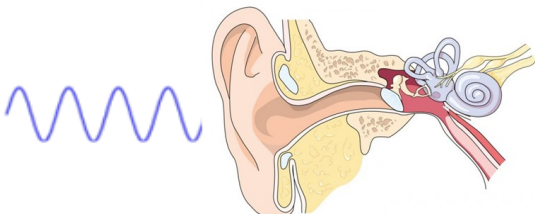


How do sounds travel to our ears?

- Sound waves** travel through a **medium** such as air (a gas), a liquid or a solid (like a wall). E.g. If someone plays loud music in the room next door, the sound can travel through the bricks in the wall.

How do we hear sounds?

- The air vibrations (sound waves) travel to the ear through a medium and make the eardrums vibrate. This sends a message to the brain which recognises the vibrations as sounds.



How do sounds change?

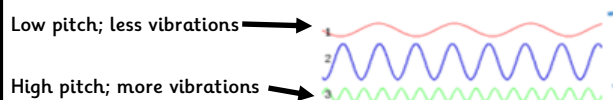
Volume:

- The volume of a sound is how loud or quiet it is.
- When a sound is created by a large **amount of energy**, a powerful sound wave is produced and a **loud sound** is heard.
- When a sound is created by a **small amount of energy**, a weak sound wave is produced which doesn't travel far. This makes a **quiet sound**.

E.g. Tap a hammer lightly to create a quiet sound and smash a hammer with lots of energy to create a loud noise.

Pitch:

- The **pitch** of a sound is how high or low it is. The squeak of a mouse is **high pitched** and the roar of a lion is **low pitched**.
- The more vibrations per second, the higher the pitch. This is called the **frequency**.





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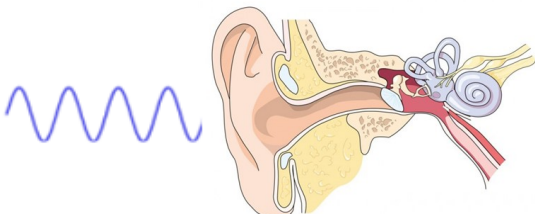


How do sounds travel to our ears?

- Sound waves travel through a _____ to our ears. There are 3 kinds: _____, _____ and _____.

How do we hear sounds?

-



How do sounds change?

Volume:

- The volume of a sound is how loud or quiet it is.
- Loud sound:
- Quiet sound:

Pitch:

- The **pitch** of a sound is

The more vibrations per second, the higher the pitch. This is called the **frequency**.

